

**SENDIX 5853/5873, OPTYCZNY,
JEDNOOBROTOWY, SSI, Ø58 MM**

Enkodery jednoobrotowe absolutne optyczne

SERIE 5853

- Średnica zewnętrzna: Ø 58 mm
- Maks. średnica wałka: Ø 10 mm. Maks. średnica otworu: Ø 15 mm
- SSI, BiSS, + 2048 ppr SinCos, + 2048 ppr RS422
- Maks. rozdzielczość: 21 bitów ST
- Wytrzymała konstrukcja łożysk Safety-Lock™



OPIS PRODUKTU

Encodery jednoobrotowe Sendix 5853/5873 Kubler z interfejsem SSI lub BiSS oraz optycznym układem pomiarowym mogą zaoferować rozdzielczość do aż 21bitów.

Dostępna jest również dodatkowa ścieżka inkrementalna oraz specjalna wersja do montażu w napędach wind.

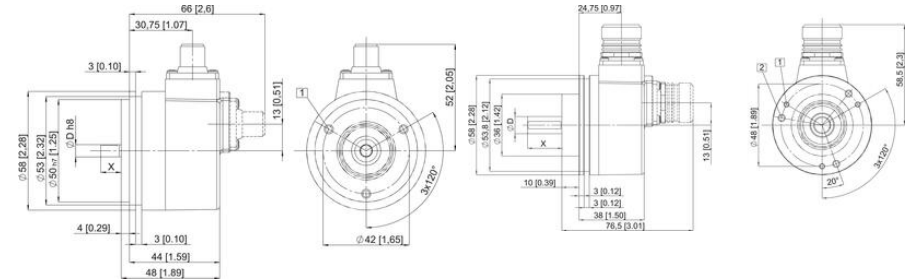
W celu określenia numeru katalogowego proszę o zapoznanie się z poniższymi informacjami.

Order code	8.5853	.XXX.XX.	XX.XX
Shaft version	Type	a b c d	e f g h
a Flange			
1 = clamping flange, IP65 ø 58 mm [2.28"]			
3 = clamping flange, IP67 ø 58 mm [2.28"]			
2 = synchro flange, IP65 ø 58 mm [2.28"]			
4 = synchro flange, IP67 ø 58 mm [2.28"]			
5 = square flange, IP65 □ 63.5 mm [2.5"]			
7 = square flange, IP67 □ 63.5 mm [2.5"]			
b Shaft (ø x L), with flat			
1 = 6 x 10 mm [0.24 x 0.39"]¹⁾			
2 = 10 x 20 mm [0.39 x 0.79"]²⁾			
3 = 1/4" x 7/8"			
4 = 3/8" x 7/8"			
c Interface / power supply			
1 = SSI, BiSS / 5 V DC			
2 = SSI, BiSS / 10 ... 30 V DC			
3 = SSI, BiSS + 2048 ppr. SinCos / 5 V DC			
4 = SSI, BiSS + 2048 ppr. SinCos / 10 ... 30 V DC			
5 = SSI, BiSS / 5 V DC, with sensor output			
6 = SSI, BiSS + 2048 ppr. SinCos / 5 V DC, with sensor output			
7 = SSI, BiSS + 2048 ppr. RS422 (TTL-comp.) / 5 V DC			
8 = SSI, BiSS + 2048 ppr. RS422 (TTL-comp.) / 10 ... 30 V DC			
9 = SSI, BiSS + 2048 ppr. RS422 (TTL-comp.) / 5 V DC, with sensor output			
d Type of connection			
1 = axial cable, 1 m [3.28"] PVC			
A = axial cable, special length PVC *)			
2 = radial cable, 1 m [3.28"] PVC			
B = radial cable, special length PVC *)			
3 = axial M23 connector, 12-pin			
4 = radial M23 connector, 12-pin			
5 = axial M12 connector, 8-pin ³⁾			
6 = radial M12 connector, 8-pin ³⁾			
e Code			
B = SSI, binary			
C = BiSS, binary			
G = SSI, gray			
f Resolution⁴⁾			
A = 10 bit			
1 = 11 bit			
2 = 12 bit			
3 = 13 bit			
4 = 14 bit			
7 = 17 bit			
C = 21 bit ⁵⁾			
g Inputs / outputs⁴⁾			
2 = SET, DIR input			
additional status output			
h Options (service)			
1 = no option			
2 = status LED			
3 = SET button and status LED			
i Optional on request			
- Ex 2/22 ⁶⁾			
- surface protection			
- salt spray tested			
- other resolutions			

Order code Hollow shaft		8.5873 Type	.XXXX.XX2X a b c d e f g h
a Flange 1 = with spring element, long, IP65 2 = with spring element, long, IP67 3 = with stator coupling, IP65 ø 65 mm [2.56"] 4 = with stator coupling, IP67 ø 65 mm [2.56"] 5 = with stator coupling, IP65 ø 63 mm [2.48"] 6 = with stator coupling, IP67 ø 63 mm [2.48"] E = with stator coupling, IP65 mounting without screws ¹⁾ F = with stator coupling, IP67 mounting without screws ¹⁾ G = with stator coupling, IP65 ø 72 mm [2.83"] ¹⁾ H = with expanding coupling, IP65 ø 65 mm [2.56"] ¹⁾ b Through hollow shaft 3 = ø 10 mm [0.39"] 4 = ø 12 mm [0.47"] 5 = ø 14 mm [0.55"] 6 = ø 15 mm [0.59"] 8 = ø 3/8" 9 = ø 1/2" Tapered shaft K = ø 10 mm [0.39"]		c Interface / power supply 1 = SSI, BiSS / 5 V DC 2 = SSI, BiSS / 10 ... 30 V DC 3 = SSI, BiSS + 2048 ppr. SinCos / 5 V DC 4 = SSI, BiSS + 2048 ppr. SinCos / 10 ... 30 V DC 5 = SSI, BiSS / 5 V DC, with sensor output 6 = SSI, BiSS + 2048 ppr. SinCos / 5 V DC, with sensor output 7 = SSI, BiSS + 2048 ppr. RS422 (TTL-comp.) / 5 V DC 8 = SSI, BiSS + 2048 ppr. RS422 (TTL-comp.) / 10 ... 30 V DC 9 = SSI, BiSS + 2048 ppr. RS422 (TTL-comp.) / 5 V DC, with sensor output d Type of connection 2 = radial cable, 1 m [3.28'] PVC B = radial cable, special length PVC *) E = tangential cable, 1 m [3.28'] PVC F = tangential cable, special length PVC *) 4 = radial M23 connector, 12-pin 6 = radial M12 connector, 8-pin ²⁾ *) Available special lengths (connection types B, F): 2, 3, 5, 8, 10, 15 m [5.56, 9.84, 16.40, 26.25, 32.80, 49.21'] order code expansion .XXXX = length in dm ex.: 8.5873.542B.G323.0030 (for cable length 3 m)	
		e Code B = SSI, binary C = BiSS, binary G = SSI, gray	9 Inputs / outputs ³⁾ 2 = SET, DIR input additional status output h Options (service) 1 = no option 2 = status LED 3 = SET button and status LED Optional on request - Ex 2/22 (not with type of connection E or F) ⁵⁾ - surface protection salt spray tested - other resolutions
		i Resolution ²⁾ A = 10 bit 1 = 11 bit 2 = 12 bit 3 = 13 bit 4 = 14 bit 7 = 17 bit C = 21 bit ⁴⁾	

SPECYFIKACJA TECHNICZNA

Max. temperatura pracy	90 °C
Min. temperatura pracy	-40 °C
Montaż	Wał
Napięcie zasilania DC max.	30 V DC
Napięcie zasilania DC min.	5 V DC
Podłączenie	Kabel, Złącze M12, Złącze M23
Średnica obudowy	58 mm
Średnica wału max	10 mm
Średnica wału min	6 mm
Stopień ochrony IP	IP65, IP67
Typ czujnika	Absolutny
Wersja	Jednoobrotowy
Wyjście	SSI



For output circuit 1 or 2 and type of connection 1, 2, 3 or 4 (2 control inputs, 1 status output)

Signal	GND	+V	+C	-C	+D	-D	SET	DIR	Stat	N/C	N/C	N/C	PE
Cable colour:	WH	BN	GN	YE	GY	PK	BU	RD	BK	-	-	-	Shield
M12 connector:	1	2	3	4	5	6	7	8	9	10	11	12	Pin

For output circuit 1 and type of connection 1, 2, 3 or 4 (2 control inputs, 1 status output, sensor outputs for voltage)

Signal	GND	+V	+C	-C	+D	-D	SET	DIR	Stat	N/C	0V sense	+5V sense	PE
Cable colour:	WH	BN	GN	YE	GY	PK	BU	RD	BK	-	GY-PK	RD-BU	Shield
M12 connector:	1	2	3	4	5	6	7	8	9	10	11	12	Pin

For output circuit 3, 4, 7 or 8 and type of connection 1, 2, 3 or 4 (2 control inputs, incremental track RS422 or SinCos)

Signal	GND	+V	+C	-C	+D	-D	SET	DIR	A	A Inv	B	B Inv	PE
Cable colour:	WH	BN	GN	YE	GY	PK	BU	RD	BK	VT	GY-PK	RD-BU	Shield
M12 connector:	1	2	3	4	5	6	7	8	9	10	11	12	Pin

For output circuit 5 or 9 and type of connection 1, 2, 3 or 4 (SinCos or incremental track, sensor outputs for voltage)

Signal	GND	+V	+C	-C	+D	-D	A	A Inv	B	B Inv	0V sense	+5V sense	PE
Cable colour:	WH	BN	GN	YE	GY	PK	BU	RD	BK	VT	GY-PK	RD-BU	Shield
M12 connector:	1	2	3	4	5	6	7	8	9	10	11	12	Pin

For output circuit 1 or 2 and type of connection 5 or 6 (2 control inputs)

Signal	GND	+V	+C	-C	+D	-D	SET	DIR	Shield/PE
M12 connector:	1	2	3	4	5	6	7	8	Pin

+V: Encoder Power Supply +V DC
GND: Encoder Power Supply Ground (0V)

+C: -C: Clock signal

+D: -D: Data signal

SET: Set input. The current position is set to zero

DIR: Direction input. If this input is active, the output values are counted backwards (decrease) when the shaft is turning clockwise.

Stat: Status output

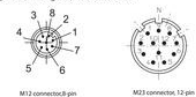
PE: Protective earth

Pin: Plug connector housing (shield)

A, A Inv: Sine output (incremental)

B, B Inv: Cosine output (incremental)

Top view of mating side, male contact base



M12 connector, 8 pin

M12 connector, 12 pin

For output circuit 1 or 2 and type of connection 1, 2, 3 or 4 (2 control inputs, 1 status output)

Signal	GND	+V	+C	-C	+D	-D	SET	DIR	Stat	N/C	N/C	N/C	PE
Cable colour:	WH	BN	GN	YE	GY	PK	BU	RD	BK	-	-	-	Shield
M12 connector:	1	2	3	4	5	6	7	8	9	10	11	12	Pin

For output circuit 5 and type of connection 1, 2, 3 or 4 (2 control inputs, 1 status output, sensor outputs for voltage)

Signal	GND	+V	+C	-C	+D	-D	SET	DIR	Stat	N/C	0V sense	+5V sense	PE
Cable colour:	WH	BN	GN	YE	GY	PK	BU	RD	BK	-	GY-PK	RD-BU	Shield
M12 connector:	1	2	3	4	5	6	7	8	9	10	11	12	Pin

For output circuit 3, 4, 7 or 8 and type of connection 1, 2, 3 or 4 (2 control inputs, incremental track RS422 or SinCos)

Signal	GND	+V	+C	-C	+D	-D	SET	DIR	A	A Inv	B	B Inv	PE
Cable colour:	WH	BN	GN	YE	GY	PK	BU	RD	BK	VT	GY-PK	RD-BU	Shield
M12 connector:	1	2	3	4	5	6	7	8	9	10	11	12	Pin

For output circuit 5 or 9 and type of connection 1, 2, 3 or 4 (SinCos or incremental track, sensor outputs for voltage)

Signal	GND	+V	+C	-C	+D	-D	A	A Inv	B	B Inv	0V sense	+5V sense	PE
Cable colour:	WH	BN	GN	YE	GY	PK	BU	RD	BK	VT	GY-PK	RD-BU	Shield
M12 connector:	1	2	3	4	5	6	7	8	9	10	11	12	Pin

For output circuit 1 or 2 and type of connection 5 or 6 (2 control inputs)

Signal	GND	+V	+C	-C	+D	-D	SET	DIR	Shield/PE
M12 connector:	1	2	3	4	5	6	7	8	Pin

+V: Encoder Power Supply +V DC
GND: Encoder Power Supply Ground (0V)

+C: -C: Clock signal

+D: -D: Data signal

SET: Set input. The current position is set to zero

DIR: Direction input. If this input is active, the output values are counted backwards (decrease) when the shaft is turning clockwise.

Stat: Status output

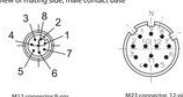
PE: Protective earth

Pin: Plug connector housing (shield)

A, A Inv: Sine output (incremental)

B, B Inv: Cosine output (incremental)

Top view of mating side, male contact base



M12 connector, 8 pin

M12 connector, 12 pin